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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/777,700

02/11/2004

Hee Jeong Kim

2080-3228

5713

7590

05/03/2006

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EXAMINER

GIBSON, ERIC M

ART UNIT

PAPER NUMBER

3661

DATE MAILED: 05/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/777,700

Applicant(s)

KIM, HEE JEONG

Examiner

Eric M. Gibson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "the directional arrow" in line 17. There is insufficient antecedent basis for this limitation in the claim. There is only an "arrow" previously recited in the claim. The additional adjective renders the limitation indefinite because it is unknown whether or not the limitation is referring to the same element.

Regarding claim 2, the phrase "namely" renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

Claims 3-7 are necessarily rejected as being dependent upon a rejected base claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 and 6-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Kishi et al. (US005638279A).

Per claim 1, Kishi teaches a navigation system including a map data memory (10, figure 2), an input unit (24, figure 2), a GPS receiver (12, figure 2), a gyro sensor (14, figure 2), a controller (32, figure 2) for generating the configuration of an intersection the user is supposed to enter and an arrow indicating a driving route to the user and for displaying a progression rate of the car along the route (column 4-5), and a display driving unit (42, figure 2) for performing a graphic operation on the configuration whereby a gradual progression rate of the car is indicated in the arrow (see figures 7A-7C).

Per claims 2 and 6, Kishi teaches standard map information (column 4, lines 20-24).

Per claims 3 and 4, Kishi teaches that the entrance link is "headed up" (see figure 4).

Per claim 7, Kishi teaches that the arrow points at a start node getting out of an intersection (see for example, figures 7A-7C).

Per claim 8, Kishi teaches a method of operating a navigation system including obtaining information about an intersection, calculating "heading up" and "screen coordinates", displaying the complicated intersection, and displaying a route that passes through the complicated intersection (column 5-6), and further changing the color of the route (column 5, lines 1-5).

Per claim 9, Kishi teaches standard map information (column 4, lines 20-24).

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Per claim 10, Kishi teaches that the entrance link is "headed up" (see figure 4).

Per claim 11, Kishi teaches constructing a map database (10, figure 2), displaying a driving route (see figure 4), using information from the map database and GPS receiver (column 4), extracting the configuration of the intersection and displaying the configuration (see figure 4), displaying a traveling direction of a car in the intersection, including gradually changing an arrow displayed and keeping pace with the present position of the car (see figures 7A-7C).

Per claim 12, Kishi teaches that the entrance link is "headed up" (see figure 4).

Per claim 13, Kishi teaches changing the color of the route (column 5, lines 1-5).

Per claim 14, Kishi teaches indicating progression for all intersections.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kishi in view of Smith, Jr. (US005323321A).

Per claim 5, Kishi teaches the invention as explained in the rejection of claim 1. Kishi does not teach filling or emptying the arrow to indicate the progression of the vehicle. Smith, Jr. teaches a navigation system that displays an arrow that is gradually filled to indicate route progression (see figures 2 & 3). It would have been obvious to one of ordinary skill in the art, at the time of invention, to fill the arrow indicating route

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progression, as an alternative to the method of progression taught by Kishi, as shown by Smith, Jr.

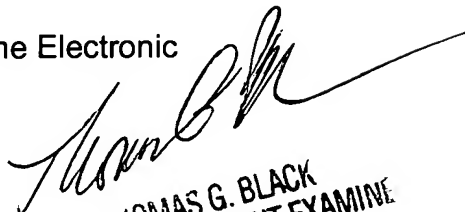
Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Millington (US006611753B1) teaches a three-dimensional intersection display for a vehicle navigation system. Barton (US006405131B1) teaches a method and system for providing route guidance with multiple progress bars. Nimura et al. (US006266613B1) teaches a navigation apparatus for a vehicle. Schulte (US005537323A) teaches a navigation device and vehicle.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric M. Gibson whose telephone number is (571) 272-6960. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


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